

Title (en)

POPULATIONS OF REPORTER SEQUENCES AND METHODS OF THEIR USE

Title (de)

POPULATIONEN VON REPORTERSEQUENZEN UND VERFAHREN ZU DEREN VERWENDUNG

Title (fr)

POPULATIONS DE SEQUENCES RAPPORTEUR ET PROCEDES D'UTILISATION DE CELLES-CI

Publication

EP 1817433 A4 20090617 (EN)

Application

EP 05851593 A 20051110

Priority

- US 2005041111 W 20051110
- US 62666304 P 20041110

Abstract (en)

[origin: WO2006062684A2] Compositions, methods and kits are provided that are useful, for example, for determining activities of multiple cis-regulatory sequences, such as promoters and enhancers, and/or multiple trans-acting factors, such as transcription factors, in a cell. In particular, in certain embodiments, compositions are provided comprising a population of polynucleotide reporter transcription units (RTUs) in which each RTU comprises a reporter sequence, a processing tag located in the reporter sequence; and a cis-regulatory element operably linked to the reporter sequence, wherein the reporter sequences between any two RTUs in the population, outside of the processing tags, are substantially identical and wherein the positions of the processing tags within the reporter sequences distinguish between any two RTUs differing, for example, in their cis-regulatory elements. The compositions, methods and kits can further be used, for example, to identify a cell type or disease state, for example, in a biological organism.

IPC 8 full level

C12Q 1/68 (2006.01); **G16B 20/20** (2019.01); **G16B 20/30** (2019.01); **G16B 20/50** (2019.01); **G16B 25/00** (2019.01); **G16B 40/10** (2019.01)

CPC (source: EP US)

C12Q 1/6897 (2013.01 - EP US); **G16B 20/20** (2019.01 - EP US); **G16B 20/30** (2019.01 - EP US); **G16B 20/50** (2019.01 - EP US); **G16B 25/00** (2019.01 - EP); **G16B 40/10** (2019.01 - EP US); **G16B 20/00** (2019.01 - EP US); **G16B 25/00** (2019.01 - US); **G16B 40/00** (2019.01 - EP US)

Citation (search report)

- [X] US 2003148287 A1 20030807 - LI XIANQIANG [US], et al
- [T] ROMANOV SERGEI ET AL: "Homogeneous reporter system enables quantitative functional assessment of multiple transcription factors", NATURE METHODS, vol. 5, no. 3, March 2008 (2008-03-01), pages 253 - 260, XP002526019, ISSN: 1548-7091
- See references of WO 2006062684A2

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